

Accepted Manuscript

Verifying Cyber Attack Properties

Colin O'Halloran, Tom Gibson Robinson, Neil Brock

PII: S0167-6423(17)30127-2
DOI: <http://dx.doi.org/10.1016/j.scico.2017.06.006>
Reference: SCICO 2110

To appear in: *Science of Computer Programming*

Received date: 19 May 2016
Revised date: 14 June 2017
Accepted date: 14 June 2017

Please cite this article in press as: C. O'Halloran et al., Verifying Cyber Attack Properties, *Sci. Comput. Program.* (2017), <http://dx.doi.org/10.1016/j.scico.2017.06.006>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



Highlights

- Assuring the resilience and security properties of a Cyber-Physical System are important.
- How is such assurance to be achieved when such systems have already been developed?
- Refinement is used to check abstractions of source code.
- The abstraction of source code components are represented in the process algebra CSP.
- The CSP representation is checked against system security properties through refinement checking using the FDR3 model checker.

Download English Version:

<https://daneshyari.com/en/article/4951768>

Download Persian Version:

<https://daneshyari.com/article/4951768>

[Daneshyari.com](https://daneshyari.com)